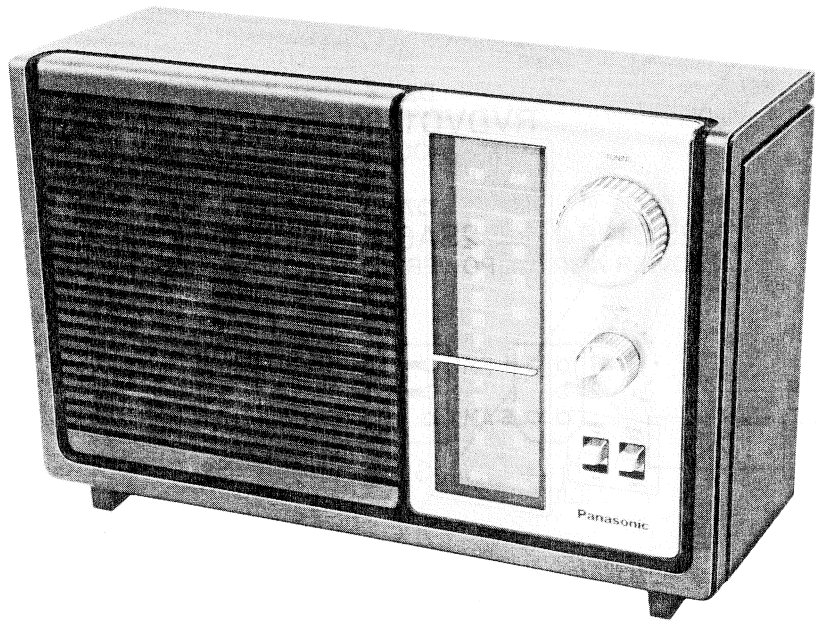
ORDER NO. RD8005-5109C

Service Manual

Radio

RE-6280/©

FM/AM Table Radio



■ Specifications

Frequency Range:	FM 88~108 MHz AM 525~1610 kHz
Intermediate Frequency:	FM 10.7 MHz AM 455 kHz
Sensitivity:	FM 2μV for 50 mW Output AM 50μV for 50 mW Output
Power Source:	AC 120 V 60 Hz
Power Consumption:	6.2 W at 120 V
Speaker:	12 cm (5") PM Dynamic Speaker
Dimensions:	$122^{7}/_{8}$"(Wide)×$80^{5}/_{8}$"(High)×$48^{3}/_{8}$"(Deep) (312×205×41.3) mm
Weight:	3 lb. 15 oz. (1.7 kg)
Impedance:	Speaker 8Ω

Weights and dimensions shown are approximate.
(Les poids et dimensions mentionnes sont approximatifs.)
Specifications are subject to change without notice.

Panasonic

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One Panasonic Way, Secaucus,
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Hawaii 96817

Panasonic Canada
Division of Matsushita Electric
of Canada Limited
5770 Ambler Drive, Mississauga,
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DISASSEMBLY INSTRUCTIONS

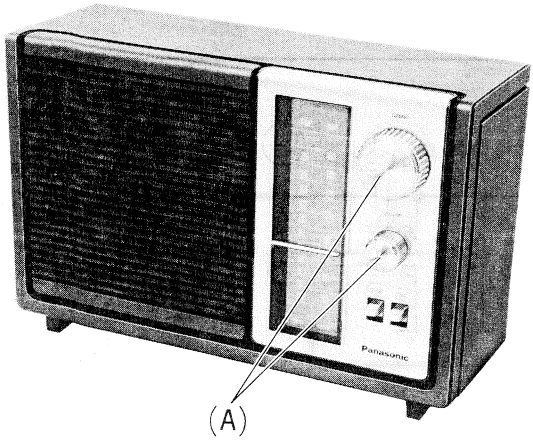


Fig. 1

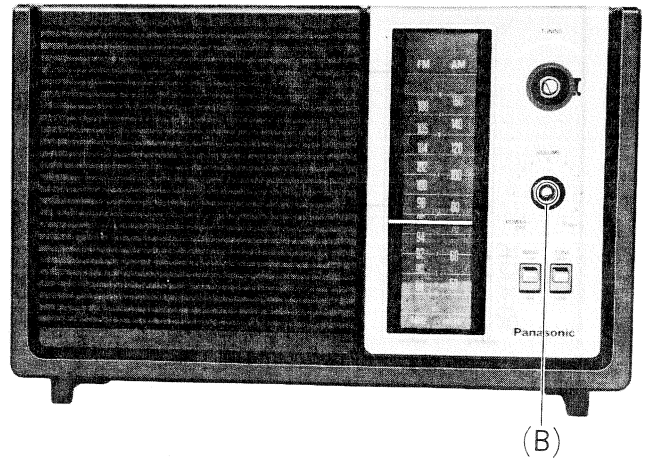


Fig. 2

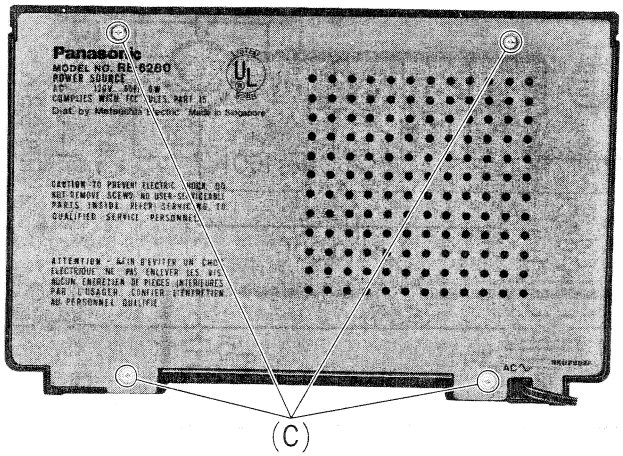


Fig. 3

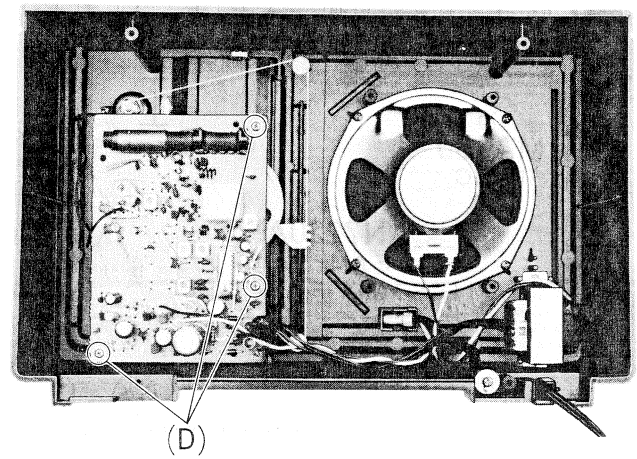


Fig. 4

Procedure	To remove —.	Remove —.	Shown in Fig. —.
1	Circuit Board	Knob .....(A)×2	1
2		Nut (8ϕ) .....(B)×1	2
3		Screws (3×12) .....(C)×4	3
4		Screws (3×12) .....(D)×3	4

Notes: 1. Set band switch to AM.
2. Set tone switch to Low.
3. Turn tuning going shaft fully counter-clockwise.
4. Turn tuning shaft fully counter-clockwise.

DIAL THREADING

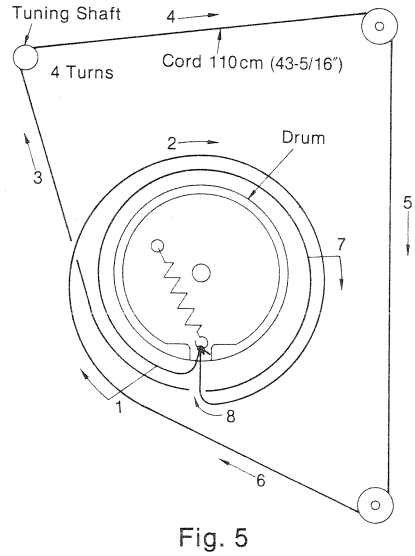


Fig. 5

PARTS LOCATIONS

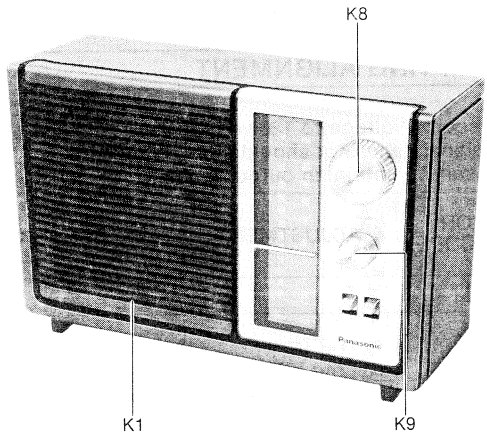


Fig. 10

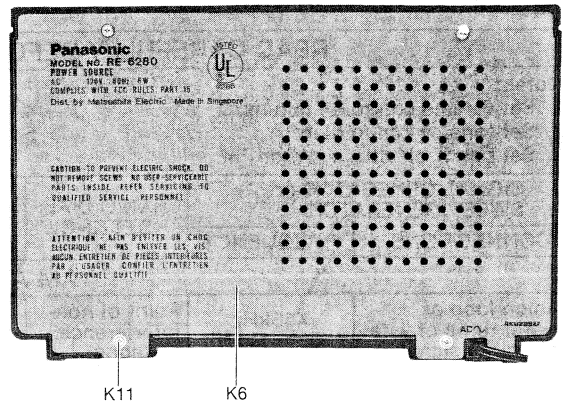


Fig. 11

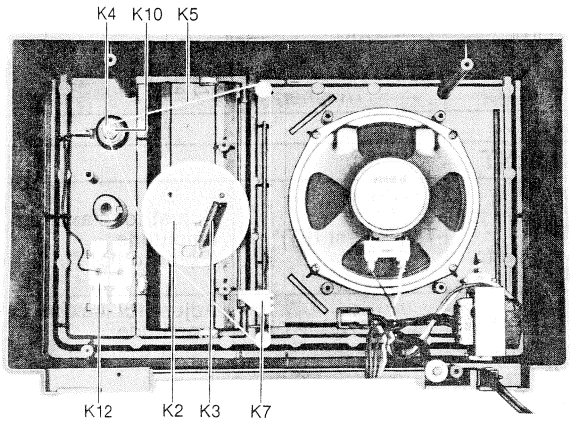


Fig. 12

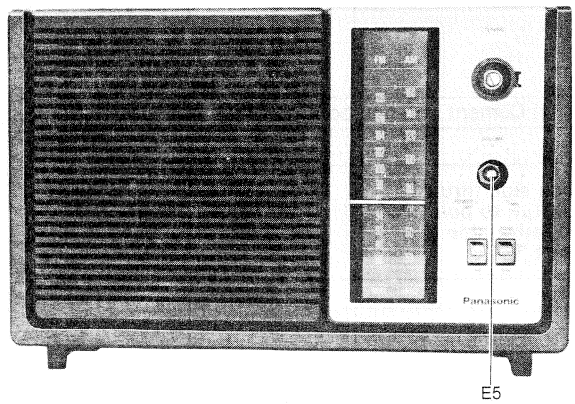


Fig. 13

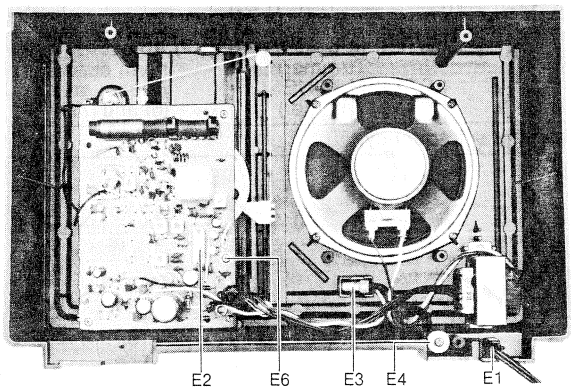
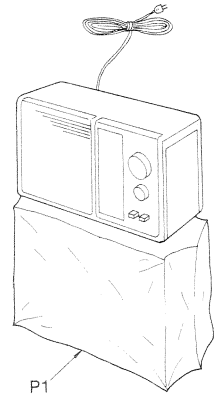
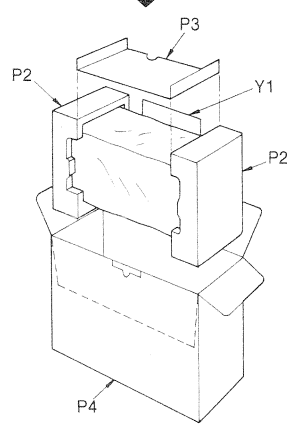
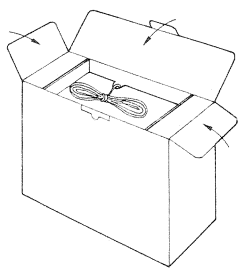


Fig. 14

PACKING MATERIALS







■ ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Notes:
1. Set volume control to minimum.
2. Set tone switch to high.
3. Set band selector to AM or FM.
4. Set power source voltage to 120 volts AC.
5. Output of signal generator should be no higher than necessary to obtain an output reading.

	SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (VTVM or SCOPE)	ADJUSTMENT	REMARKS
	CONNECTIONS	FREQUENCY				
	AM ALIGNMENT					
(1)	Fashion loop of serveral turns of wire and radiate signal into loop of receiver.	455kHz 30% Mod. with 400Hz.	Point of non-interference. (on/about 600kHz).	Output meter across voice coil.	T2 (1st IFT) T3 (2nd IFT)	Adjust for maximum output.
(2)	〃	550kHz	550kHz [9.9mm(3/8")]	〃	L7 (OSC Coil) (*1)L6 (ANT Coil)	Adjust for maximum output. Adjust L6 by moving coil bobbin along ferrite core.
(3)	〃	1500kHz	1500kHz [90.8mm(39/16")]	〃	CT4 (OSC Trimmer) CT3 (ANT Trimmer)	Adjust for maximum output. Repeat steps (2) and (3).
	(*1) Cement antenna bobbin with wax after completing alignment.					
	FM-IF ALIGNMENT					
(4)	High side thru. 0.001μF to point 3, Negative side to point 6.	10.7MHz (400kHz SWP.)	Point of non-interference. (on/about 90MHz)	Connect vert. amp. of scope to point 5, Negative side to point 6.	T1 (FM 1st IFT)	Adjust for maximum amplitude. (Refer to fig. 7).
(5)	〃	〃	〃	〃	T4 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to fig. 8).
	FM-RF ALIGNMENT					
(6)	Connect to point 2 through FM dummy antenna. Negative side to point 1. (Refer to fig. 9.)	90MHz	90MHz [12.3mm(1/2")]	Output meter across voice coil.	L5 (FM OSC Coil) L3 (FM TUNE Coil)	(*2) Adjust for maximum output.
(7)	〃	106MHz	106MHz [82.8mm(31/4")]	〃	CT2 (FM OSC Trimmer) CT1 (FM TUNE Trimmer)	(*2) Adjust for maximum output. Repeat steps (6) and (7).
	(*2) Three output responses will be present; proper tuning is the center frequency.					

■ ALIGNMENT POINTS

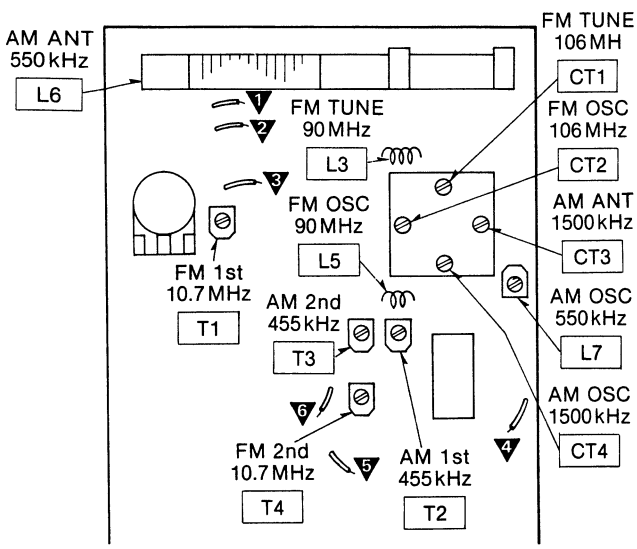


Fig. 6

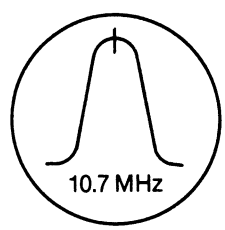


Fig. 7

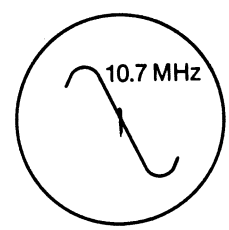


Fig. 8

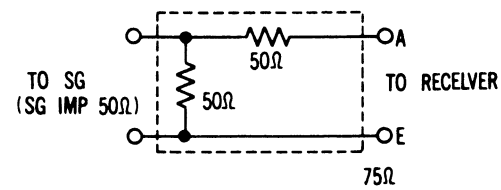


Fig. 9 FM Dummy Antenna

CIRCUIT BOARD WIRING VIEW MODEL RE-6280/©

RUP1270ZA a
HCS-59MB

Q1

	FM
C	4.1V
B	4.1V
E	3.4V

Q2

	FM
C	4.2V
B	4.1V
E	3.4V

Q3

	FM
C	4.2V
B	3V
E	2.5V

Q4

C	1.5V
B	0.62V
E	0V

Q5

C	6.8V
B	0.64V
E	0V

Q6

C	17.2V
B	8.05V
E	7.4V

Q7

C	0V
B	6.8V
E	6.75V

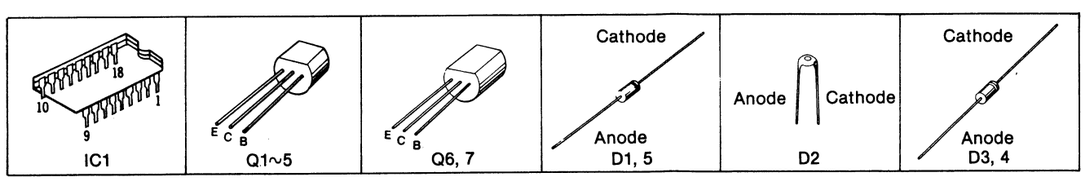
12cm (5")
PM DYNAMIC
SPEAKER
(8Ω)

BLU
BLK
BLU
T5
ORG
BLU

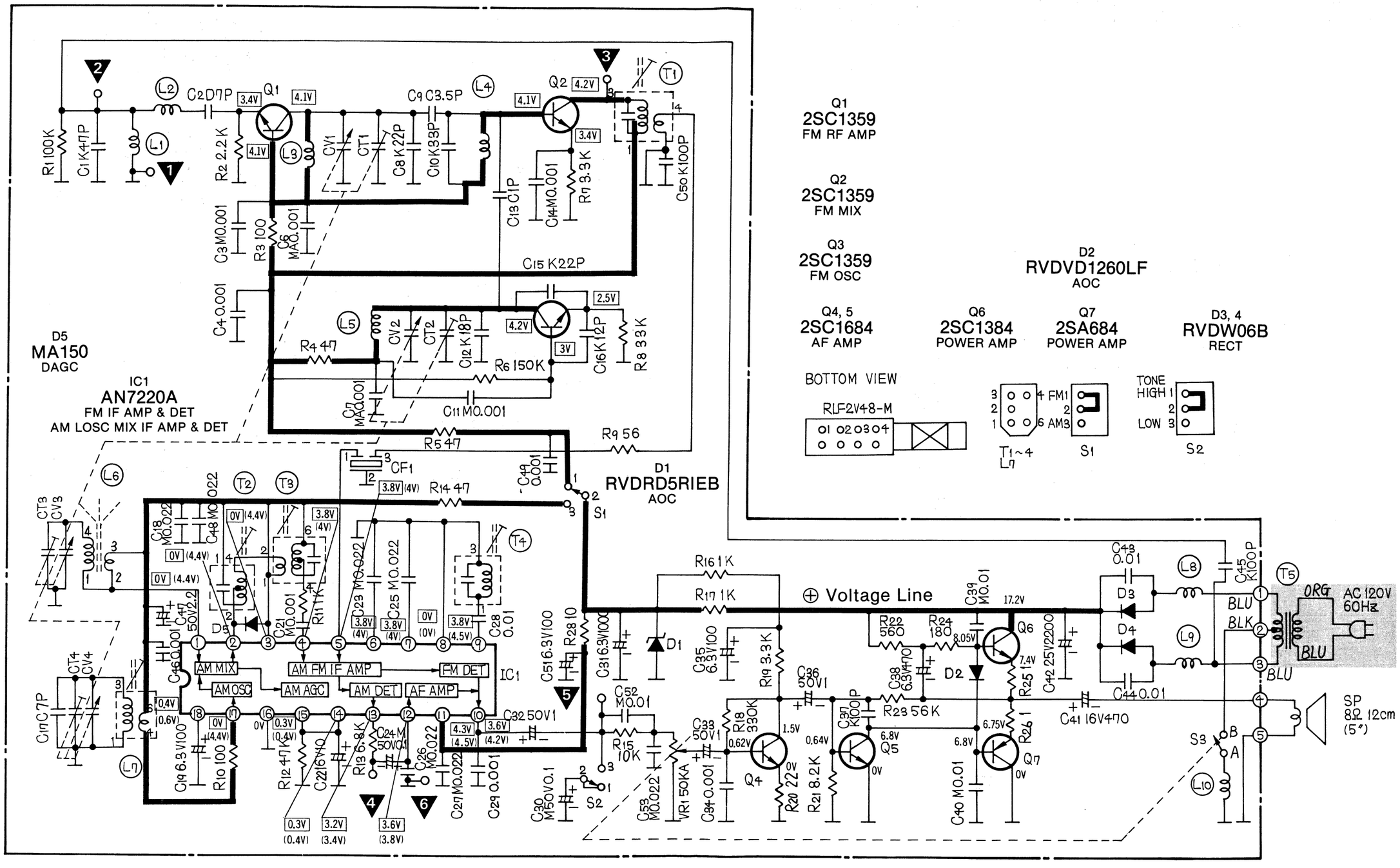
IC1

	FM	AM
1	0V	4.4V
2	0V	4.4V
3	0V	4.4V
4	3.8V	4V
5	3.8V	4V
6	3.8V	4V
7	3.8V	4V
8	0V	0V
9	3.8V	4.5V
10	3.6V	4.2V
11	4.3V	4.5V
12	3.6V	3.8V
13	3.2V	3.4V
14	0.3V	0.4V
15	0.3V	0.4V
16	0V	0V
17	0V	4.4V
18	0.4V	0.6V

AC 120V 60Hz



SCHEMATIC DIAGRAM MODEL RE-6280/©



Q1
2SC1359
FM RF AMP

Q2
2SC1359
FM MIX

Q3
2SC1359
FM OSC

D2
RVDVD1260LF
AOC

Q4, 5
2SC1684
AF AMP

Q6
2SC1384
POWER AMP

Q7
2SA684
POWER AMP

D3, 4
RVDW06B
RECT

BOTTOM VIEW

Notes: 1. S1: Band switch in "FM" position.
2. S2: Tone switch in "HIGH" position.
3. S3: Power switch in "OFF" position.
4. DC voltage measurements are taken with DC electronics voltmeter based on earth.
   ☐...FM position, ( )...AM position.

IMPORTANT SAFETY NOTICE

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR SAFETY.
WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THE SCHEMATIC.

■REPLACEMENT PARTS LIST .....Model RE-6280/©

(RD8005-5109C)

NOTES: 1. ⚠ indicates that only parts specified by the manufacturer be used for safety.
2. The S mark indicates service standard parts and may differ from production parts.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
		INTEGRATED CIRCUIT, TRANSISTORS AND DIODES		
IC1	AN7220A	IC	1	
Q1,2,3	2SC1359	Transistor (Si)	3	
Q4,5	2SC1684	Transistor (Si)	2	
Q6	2SC1384	Transistor (Si)	1	
Q7	2SA684	Transistor (Ge)	1	
D1	RVD1N4733A	Diode (Si)	1	S
D2	RVDVD1260LF	Diode (Si)	1	
D3,4	RVDW06B	Diode (Si)	2	
D5	MA161	Diode (Si)	1	S
		COILS AND TRANSFORMERS		
L3	RLD4Y44	Tuning Coil, FM	1	
L5	RLD4Y43	Oscillator Coil, FM	1	
L6	RLF2V48	Antenna Coil, AM	1	
L7	RLO2M3	Oscillator Coil, AM	1	
T1,4	RLI4M101	IFT, FM	2	S
T2	RLI2M216	IFT, AM	1	
T3	RLI2M217	IFT, AM	1	
T5	RLT5J382	Power Transformer, USA only	1	⚠
T5	RLT5J382B	Power Transformer, Canada only	1	⚠
		VARIABLE RESISTOR		
VR1	EVH17E085A54	Variable Resistor, 50kΩ (A)	1	
		VARIABLE CAPACITOR		
CV1∿4	RCV4LC2V1L	Tuning Capacitor, w/Trimmer Capacitor (CT1∿4)	1	
		CERAMIC FILTER		
CF1	RVFSFE107MSR	Ceramic Filter	1	
		SPEAKER		
	EAS12P58GE	Speaker, 12cm (5"), 8Ω	1	
		SWITCH		
S1,2	RSS2A08Z	Switch, Band & Tone	2	
		RESISTORS (Value is in OHMS)		
R1	ERD25TJ104	100 k 1/4W Carbon	1	S
R2	ERD25TJ222	2.2 k " "	1	S
R3	ERD25TJ101	100 " "	1	S
R4	ERD25TJ470	47 " "	1	S
R5	ERD25TJ470	47 " "	1	S
R6	ERD25TJ154	150 k " "	1	S
R7	ERD25TJ332	3.3 k 1/4W Carbon	1	S
R8	ERD25TJ332	3.3 k " "	1	S
R9	ERD25TJ560	56 " "	1	S
R10	ERD25TJ101	100 " "	1	S
R11	ERD25TJ102	1 k " "	1	S
R12	ERD25TJ473	47 k " "	1	S
R13	ERD25TJ682	6.8 k " "	1	S
R14	ERD25TJ470	47 " "	1	S
R15	ERD25TJ103	10 k " "	1	S
R16	ERD25TJ102	1 k " "	1	S
R17	ERD50FJ102	1 k 1/2W "	1	
R18	ERD25TJ334	330 k 1/4W "	1	S
R19	ERD25TJ332	3.3 k " "	1	S
R20	ERD25TJ220	22 " "	1	S
R21	ERD25TJ822	8.2 k " "	1	S
R22	ERD25TJ561	560 " "	1	S
R23	ERD25TJ563	56 k " "	1	S
R24	ERD25TJ181	180 " "	1	S
R25	ERX12ANJ1R0	1 1/2W Metal	1	S
R26	ERX12ANJ1R0	1 " "	1	S
R28	ERD25TJ100	10 1/4W Carbon	1	S
		CAPACITORS (Value is in MICRO FARADS except P.P=PICO FARADS)		
C1	ECCD1H470KC	47 P 50V Ceramic	1	
C2	ECCD1H070DC	7 P " "	1	
C3	ECKD1H102MD	0.001 " "	1	
C4	ECKD1H102ZF	0.001 " "	1	
C6	ECKD1H102MD	0.001 " "	1	
C7	ECKD1H102MD	0.001 " "	1	
C8	ECCD1H180KC	18 P " "	1	
C9	ECCD1H3R5C	3.5 P " "	1	
C10	ECCD1H330KC	33 P " "	1	
C11	ECKD1H102MD	0.001 " "	1	
C12	ECCD1H150KC	15 P " "	1	
C13	ECCD1H010C	1 P " "	1	
C14	ECKD1H102MD	0.001 " "	1	
C15	ECCD1H220KC	22 P " "	1	
C16	ECCD1H120KC	12 P " "	1	
C17	ECCD1H070C	7 P " "	1	
C18	ECFVD223MD	0.022 25V Semi-Conductor	1	
C19	ECEA1AS101	100 10V Electrolytic	1	S
C21	ECKD1H102MD	0.001 50V Ceramic	1	
C22	ECEA1HS100	10 " Electrolytic	1	S
C23	ECFVD223MD	0.022 25V Semi-Conductor	1	
C24	ECEA50ZR1	0.1 50V Electrolytic	1	
C25	ECFVD223MD	0.022 25V Semi-Conductor	1	
C26	ECFVD223MD	0.022 " "	1	
C27	ECFVD223MD	0.022 " "	1	
C28	ECKD1H103ZF	0.01 50V Ceramic	1	
C29	ECKD1H102ZF	0.001 " "	1	
C30	ECEA50ZR1	0.1 " Electrolytic	1	
C31	ECEA0JS102	1000 6.3V "	1	S
C32	ECEA50Z1	1 50V "	1	S
C33	ECEA50Z1	1 " "	1	S
C34	ECKD1H102ZF	0.001 50V Ceramic	1	

8

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C35	ECEA1AS101	100 10V Electrolytic	1	S
C36	ECEA50Z1	1 50V "	1	S
C37	ECCD1H101K	100 P " Ceramic	1	
C38	ECEA0JS471	470 6.3V Electrolytic	1	S
C39	ECFVD103MD	0.01 25V Semi-Conductor	1	
C40	ECFVD103MD	0.01 " "	1	
C41	ECEA1CS471	470 16V Electrolytic	1	S
C42	ECEA1ES222	2200 25V "	1	S
C43	ECKD1H103ZF	0.01 50V Ceramic	1	
C44	ECKD1H103ZF	0.01 " "	1	
C45	ECCD1H101K	100 P " "	1	
C46	ECKD1H102ZF	0.001 " "	1	
C47	ECEA50V2R2	2.2 " Electrolytic	1	
C48	ECFVD223MD	0.022 25V Semi-Conductor	1	
C49	ECKD1H102ZF	0.001 50V Ceramic	1	
C50	ECCD1H101K	100 P " "	1	
C51	ECEA1AS101	100 10V Electrolytic	1	S
C52	ECFVD103MD	0.01 25V Semi-Conductor	1	
C53	ECFVD223MD	0.022 " "	1	
		CABINET PARTS		
K1	RYME6280MKS1	Cabinet Assembly	1	
K2	RDD654Z	Drum, Dial	1	
K3	RDS4170A	Spring, Dial	1	
K4	RDT4162Z	Shaft, Tuning	1	
K5	RDZ05Z	Cord, Dial	1 ROLL	
K6	RKU298Z	Rear Cover, USA Only	1	
K6	RKU298Y	Rear Cover, Canada Only	1	
K7	RDP807Z	Pointer, Dial	1	
K8	RBN382Z	Knob, Tuning	1	
K9	RBN526Z	Knob, Volume	1	
K10	XNS9	Nut, Tuning Shaft	1	S
K11	XTW3+12F	Screw, Rear Cover M'tg	4	
K12	RBS161Z	Knob, Switch	2	
		ELECTRICAL PARTS		
E1	RJA9Y	Power Cord, AC	1	S ⚠
E2	RMC506Z	Shield Cover, IC	1	
E3	RHR108A	Lead Cap	2	⚠
E4	RNW325	Washer, Power Cord	1	⚠
E5	XNS8	Nut, Volume M'tg	1	S
E6	XTV3+12G	Screw, Speaker & PC Board M'tg	9	
		PACKING MATERIALS		
P1	XZB45X40A04	Polyethylene Cover	1	S
P2	RPN3122Z	Pad	2	
P3	RPN3123Z	Pad	1	
P4	RPK982Z	Gift Box, USA Only	1	
P4	RPK982Y	Gift Box, Canada Only	1	
		PRINTED MATERIALS		
Y1	RQX6593Z	Instruction Book, USA Only	1	
Y1	RQX6610Z	Instruction Book, Canada Only	1	

RD Ⓗ MKSN/CKSN
Printed in Japan

F I C H E N O. 8 1 3

english.	I N D E X - I.	deutsch.
M O D E L R E - 6 2 8 0 (C).		M O D E L L R E - 6 2 8 0 (C).
Specifications.	A 1	Technische Daten.
Disassembly instructions.	A 2	Demontageanleitung.
Dial threading.	A 2	Skalenbandeinstellung.
Parts location.	A 3	Anordnung der Bauelemente.
Packing materials.	A 3	Verpackungmaterial.
Alignment instructions.	A 4	Abgleichanweisungen.
Circuit board.	A 5- A 6	Platine.
Schematic diagram.	A 7- A 8	Schaltplan.
Replacement parts list.		Ersatzteile-Liste.
I.C., Transistors, Diodes, Coils, Transformers, Variable Resistor, Variable Capacitor, Ceramic Filter, Speaker, Switch, Resistors, Capacitors. Cabinet & Electrical parts. Packing. Printed materials.	A 9- A12	Integrierte Schaltung, Transistoren, Dioden, Spulen, Trafos, Potentiometer, Drehkondensator, Filter, Lautsprecher, Schalter, Widerstände, Kondensatoren. Gehäuse und Elektroteile. Verpackung. Technische Unterlagen.

S/M. Order No. RD-8005-5109 C

S/M. Best. Nr. RD-8005-5109 C

Fiche Nr. 813

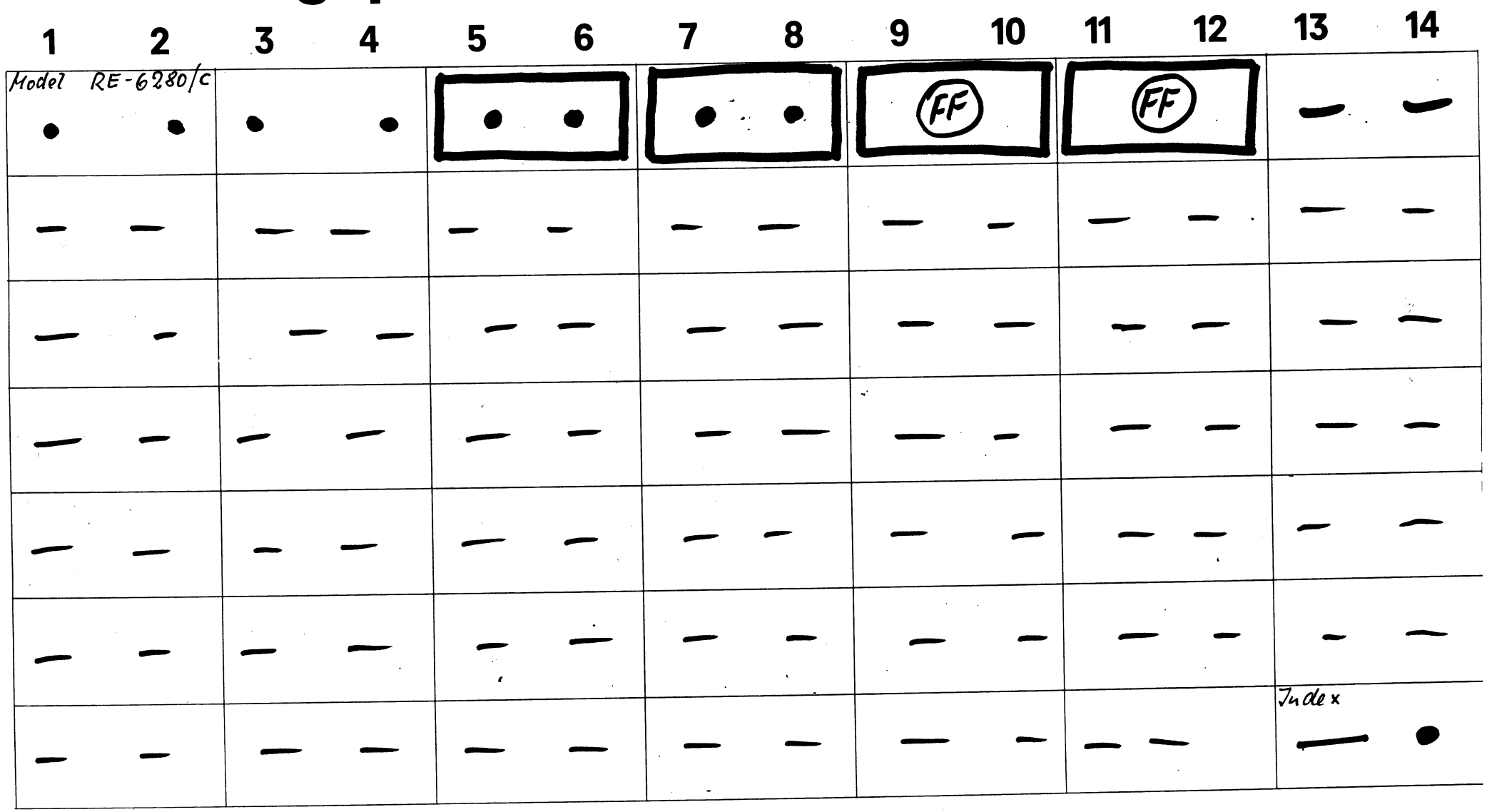
Nach DIN 19054 (International, NMA-Standart)
98 Nutzenseiten DIN A4 (49 Nutzenseiten DIN A3)

Datum 22. AUG. 1980

Inhalt Model RE-6280[C]

-mdn-Fiche-Organisation-Form 310

Verfilmungsplan



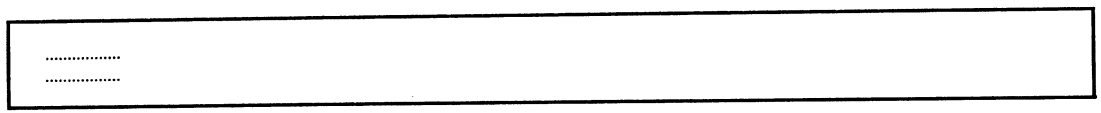
Zeichenerklärung:

Leer Frame —

Information A 4 ●

Information A 3 / A 4 quer ○

Kopfzeile



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Farbe der Kopfzeile.....

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